

Supplementary Data 3. Differentially expressed genes in WT upon shoot induction

	Col_C14_1	Col_C14_2	Col_C14_3	Col_C1487_1	Col_C1487_2	Col_C1487_3	p-value	Log fold change	Gene annotation
ATIG01110	39.50839735	25.89824045	34.54251823	15.58809919	14.69989377	22.92136651	0.000732983	-0.834311009	IQ-domain 18
ATIG01160	51.4595988	50.66637585	62.23483243	30.74016764	31.82952055	40.13369377	0.002547638	-0.619108614	GRF1-interacting factor 2
ATIG01300	171.7939927	203.3247314	236.6235373	100.72310625	104.843044	147.923763	0.001859086	-0.729139159	Eukaryotic aspartyl protease family protein
ATIG01510	102.4854581	83.34524652	107.3441548	55.37590483	57.09876093	64.92967018	0.000596971	-0.668874826	NAD(P)-binding Rossmann-fold superfamily protein
ATIG01570	9.28616177	8.569963202	12.02429432	3.488245974	4.252035389	4.175267505	6.75958E-06	-1.274180518	Protein of unknown function (DUF604)
ATIG01580	16.63607153	13.37290961	21.35223173	4.033284407	4.859469016	5.6238297	2.97792E-10	-1.757576182	ferric reduction oxidase 2
ATIG01600	7.091250806	11.3952258	7.797572681	1.526107613	1.214867254	2.897124391	8.81887E-08	-2.115625754	cytochrome P450, family 86, subfamily A, polypeptide 4
ATIG01610	49.30107703	78.07142302	46.20244	24.30871413	24.29734508	28.45998666	3.45429E-06	-1.124546889	glycerol-3-phosphate acyltransferase 4
ATIG01630	50.39853252	42.56728975	49.55466751	24.63573719	30.97911497	24.28471916	1.12573E-05	-0.794862282	Sec14p-like phosphatidylinositol transfer family protein
ATIG01680	16.54625188	22.03704823	5.028341262	1.30809224	2.551221233	2.897124391	2.24171E-07	-2.621762164	plant U-box 54
ATIG01690	18.23464493	15.82147053	20.62348662	11.11878404	11.66272564	8.180115928	0.000343408	-0.792393464	putative recombination initiation defects 3
ATIG01930	16.37741258	11.11269954	19.38461994	8.284584187	8.018123876	7.072391896	0.000167299	-0.96249138	zinc finger protein-related
ATIG01940	35.62509334	40.01290426	37.96762025	20.05741435	18.22300881	23.60340283	5.33318E-05	-0.821626942	Cyclophilin-like peptidyl-prolyl cis-trans isomerase family protein
ATIG01950	32.33272689	29.57108182	39.78948303	22.78260652	22.4750442	23.09178559	0.006343598	-0.52539349	armadillo repeat kinesin 2
ATIG01960	88.38737612	86.82973706	133.2874807	73.58018851	67.91107949	47.88776199	0.001641178	-0.675994394	SEC7-like guanine nucleotide exchange family protein
ATIG02060	18.65674319	13.27873419	21.20648271	8.502599561	9.354477855	7.583649141	2.36935E-05	-1.023450504	Tetratricopeptide repeat (TPR)-like superfamily protein
ATIG02080	114.2197898	121.0154144	222.9960038	88.73225696	82.48948654	45.16105668	0.000110768	-1.063856563	transcription regulators
ATIG02110	58.92491741	54.43339265	93.0607506	31.50322145	29.52127427	36.46968351	1.01812E-05	-1.025088629	Protein of unknown function (DUF630 and DUF632)
ATIG02130	70.65924911	64.2276363	66.97167565	48.39941288	46.52941582	37.57740754	0.000985797	-0.572321578	RAS 5
ATIG02270	15.6176357	11.86610289	17.63563167	10.79176098	10.20488493	7.839277641	0.009617446	-0.614392658	Calcium-binding endonuclease/exonuclease/phosphatase family
ATIG02290	24.88169921	22.41374991	22.00810233	15.47909151	17.12682828	13.97436471	0.00609526	-0.526034068	unknown protein
ATIG02370	33.93670029	30.60701144	27.47369066	20.27542972	20.04530969	21.81364247	0.007737725	-0.513752571	Tetratricopeptide repeat (TPR)-like superfamily protein
ATIG02390	9.877099337	9.32336656	11.14980019	3.2702306	3.766084887	3.493591177	4.8697E-08	-1.478631602	glycerol-3-phosphate acyltransferase 2
ATIG02410	35.54067368	30.04195892	32.3562829	21.80153734	24.66180525	17.89400355	0.001875311	-0.572311645	cytochrome c oxidase assembly protein CtaG / Cox11 family
ATIG02520	43.89821928	44.82749983	69.37635451	16.56916837	13.84946897	17.55316543	6.73839E-13	-1.664960758	P-glycoprotein 11
ATIG02530	18.91000215	14.78554091	23.53846707	3.2702306	2.065274332	3.067543473	5.53988E-20	-2.698241932	P-glycoprotein 12
ATIG02670	4.052143318	2.485860915	3.352227508	1.199084553	1.214867254	1.278143114	0.000334758	-1.353523712	P-loop containing nucleoside triphosphate hydrolases superfamily protein
ATIG02730	53.85973827	68.18300394	68.57491489	38.04368265	44.46414149	44.22375173	0.00581174	-0.542725566	cellulose synthase-like D5
ATIG02800	0.759776872	0.56052519	0.616519621	0.218015373	0.121486725	0	0.001599964	-2.609512157	cellulase 2
ATIG02810	43.64496032	42.66146517	56.7692441	14.49802233	18.58746898	19.76861349	1.33991E-10	-1.380116859	Plant invertase/pectin methyltransferase inhibitor superfamily
ATIG02850	218.5624802	291.0962226	274.1539105	155.5539689	137.6444599	116.1406043	3.09799E-06	-0.907408506	beta glucosidase 11
ATIG02970	16.54625188	76.76322472	16.25101596	7.194507321	8.261097326	6.135086946	2.603E-07	-1.165639148	WEE1 kinase homolog
ATIG02990	16.20857327	11.3952258	25.7247024	8.938630308	11.41975129	4.345668587	0.00133367	-1.100526459	unknown protein
ATIG03100	10.21477795	8.287436942	11.44129823	4.00961938	4.135086946	0.00179097	0.00179097	-0.901696299	Pentatricopeptide repeat (PPR) superfamily protein
ATIG03230	190.8728342	215.5675359	245.7328512	106.0644791	112.8611679	123.979882	9.90577E-06	-0.877218506	Eukaryotic aspartyl protease family protein
ATIG03270	13.25388544	11.58357664	14.86040025	5.014353587	4.375232114	6.220296487	1.92036E-06	-1.277494783	CBS domain-containing protein with a domain of unknown function (DUF21)
ATIG03300	9.534020728	5.933051447	13.40891003	2.507176794	2.915681409	3.152753014	1.67622E-06	-1.68966372	DOMAIN OF UNKNOWN FUNCTION 724 1
ATIG03365	23.72192234	19.21178564	29.95142404	13.95298389	13.99077342	12.01454527	0.000135977	-0.828635839	RING-U-box superfamily protein
ATIG03457	27.3519674	21.66034655	35.48986868	11.55481479	12.99907962	9.987182355	1.75071E-08	-1.402870582	RNA-binding (RRM/RBD/RNP motifs) family protein
ATIG03530	34.2743789	27.68757342	52.46964795	11.11878404	13.36353979	16.61586048	1.25547E-07	-1.410726539	nuclear assembly factor 1
ATIG03540	2.194910964	2.071859236	2.987854935	0.545038433	0.971893803	1.363526555	0.005681845	-1.236795396	Pentatricopeptide repeat (PPR)-like superfamily protein
ATIG03687	28.95594079	32.0164273	34.83401628	23.54660232	20.89571677	19.68340395	0.00370653	-0.540572304	DTW domain-containing protein
ATIG03760	38.74862048	35.31578243	47.58705571	21.36550659	25.39072561	25.30723365	0.000366896	-0.704418427	Prefoldin chaperone subunit family protein
ATIG03770	33.59902168	17.23410182	32.64778095	10.57374561	11.78421236	11.58849756	1.30806E-06	-1.242316797	RING 1B
ATIG03780	18.15025228	12.14862915	20.69636114	4.360307467	6.560283171	3.237962555	7.17059E-10	-1.829695279	targeting protein for XKL P2
ATIG03800	1.772812702	1.789332976	2.842105931	0.3072306	0.728920352	0.766885868	0.000361566	-1.731390563	ERF domain protein 10
ATIG03830	35.87835229	23.54385495	48.8057722	13.0809224	14.8213805	19.76861349	6.16061E-05	-1.051830096	guanylate-binding family protein
ATIG03860	141.6561768	122.0513441	134.8178454	95.92676428	95.48856616	88.70313209	0.007447653	-0.465172923	prohibitin 2
ATIG03910	90.16018882	64.05928546	104.5020488	41.85895168	48.23022998	50.27362914	0.000113029	-0.826115563	unknown protein
ATIG04010	17.98138597	16.19817221	20.40486309	13.0809224	12.14867254	7.328020518	0.002215952	-0.727045741	phospholipid sterol acyl transferase 1
ATIG04020	25.24147608	24.48560915	31.19029072	10.68275329	12.87759289	10.05472583	3.7197E-09	-1.230784354	breast cancer associated RING 1
ATIG04050	21.78027033	17.32827724	24.4129612	9.156445681	9.840424756	9.543468582	7.03861E-07	-1.105275099	homolog of SLU(var)3-9 1
ATIG04080	181.8399314	173.0944216	225.4737372	131.3542624	123.3090263	97.13887664	0.000213837	-0.688854161	Tetratricopeptide repeat (TPR)-like superfamily protein
ATIG04100	7.006831154	6.498103966	8.38056877	4.9053459	4.495008389	3.067543473	0.005873708	-0.790139751	indoleacetic acid-induced protein 10
ATIG04150	3.967723665	4.70877099	7.141702082	0.218015373	0.364460176	0.426047705	4.83642E-15	-3.85462236	C2 calcium/lipid-binding plant phosphoribosyltransferase family protein
ATIG04160	10.89013517	9.229191141	17.05263558	4.796338214	4.375232114	3.067543473	3.4324E-07	-1.577180117	myosin XI B
ATIG04180	16.54625188	11.3952258	6.048584416	4.25129978	4.130548663	6.135086946	0.002380958	-1.149726941	YUCCA 9
ATIG04200	42.46308519	36.35171204	58.29960883	31.28520608	25.14775216	17.46795589	0.000108842	-0.867127339	unknown protein
ATIG04210	83.60152759	96.36298053	11.61878412	75.4331918	74.47136266	46.18357117	0.00457626	-0.586702641	Leucine-rich repeat protein kinase family protein
ATIG04220	26.84544948	34.65655449	31.91903584	18.42229905	21.26017694	16.10460323	0.00033327	-0.712207583	3-ketoacyl-CoA synthase 2
ATIG04300	47.69710364	38.89444838	80.5263347	38.58872108	36.56750434	26.75579585	0.005599927	-0.681258147	TRAF-like superfamily protein
ATIG04510	108.4792534	100.7676992	128.4048885	54.61285103	55.0334866	43.03081816	1.48077E-09	-1.110353131	MOS4-associated complex 3A
ATIG04520	56.56116715	42.56728975	49.19029495	29.75909846	28.54938047	22.15448064	3.16318E-06	-0.847186706	plasmodesmata-located protein 2
ATIG04600	3.039107488	1.883508396	7.287451104	0.545038433	0.485946002	0.511257245	6.27675E-07	-2.909856914	myosin XI A
ATIG04610	102.9075563	53.11493677	124.7611629	16.46016069	16.40070793	27.18184355	9.7161E-12	-2.142410712	YUCCA 3
ATIG04650	9.708260032	9.040840301	11.95141981	3.379238287	2.794194684	2.130238523	1.75245E-10	-1.857913631	unknown protein
ATIG04660	0.506517915	0.847578778	0.364372555	0.109007687	0	0	0.000501719	-3.603132368	glycine-rich protein
ATIG04700	21.02049346	13.93796213	32.72065466	5.450384334	6.195822995	4.516105668	4.76378E-11	-2.029014933	PBI domain-containing protein tyrosine kinase
ATIG04730	19.83861833	21.18946496	28.27531028	8.938630308	7.653663699	5.368201077	2.97513E-11	-1.635280621	P-loop containing nucleoside triphosphate hydrolases superfamily protein
ATIG04770	49.97643425	51.98483173	51.23078126	33.24734444	31.34357515	35.87321672	0.002303592	-0.557334666	Tetratricopeptide repeat (TPR)-like superfamily protein
ATIG04790	36.72254882	26.55746838	42.40040919	25.18077562	26.48410613	18.40526084	0.006834123	-0.560681177	RING-U-box superfamily protein
ATIG04810	49.73809056	85.69963202	101.4413194	60.39025842	57.09876093	53.59680123	0.000233881	-0.652976496	26S proteasome regulatory complex, non-ATPase subcomplex, Rpn2/Psm1 subunit
ATIG04850	163.7741258	121.9571686	166.3725087	79.0357284	90.13415024	111.9653368	0.00414098	-0.621307585	ubiquitin-associated (UBA)/TS-n domain-containing protein
ATIG04900	39.93049561	30.98371311	43.4320858	26.70688324	29.39978754	17.80879405	0.002963878	-0.604183942	Protein of unknown function (DUF185)
ATIG04945	23.04656512	22.03704823	25.65182789	12.31786859	13.72799997	8.094960387	2.35105E-06	-1.030750677	HIT-type Zinc finger family protein
ATIG04990	43.89821928	42.56728975	57.35224019	37.16695959	39.5606188	29.5677107	0.007509793	-0.504317112	Zinc finger C-x8-C-x5-C-x3-H type family protein
ATIG05010	286.0137825	303.2448518	313.433272	101.2681409	99.01168119	194.2777533	7.61067E-05	-1.115387007	ethylene-forming enzyme
ATIG05120	58.33397985	41.3400929	66						

